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Subject:

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam
Area 2 – Plainwell Dam to Otsego City Dam (Otsego City Impoundment)
Area 3 – Otsego City Dam to Otsego Dam (Former Otsego Impoundment)
September 2012

SEDIMENTS

Date:

October 12, 2012

Dear Jim:

Contact:

Michael J. Erickson, P.E.

Attached is the 67th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site (Site) Supplemental Remedial Investigation/Feasibility Study (SRI/FS). This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

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Sincerely,

ARCADIS



Michael J. Erickson, P.E.
Vice President

Our ref:

B0064539.0003.00014
#2

Attachments

Copies:

Michael Berkoff, USEPA
Sam Borries, USEPA
Paul Bucholtz, MDEQ
Sharon Hanshue, MDNR
Jeff Keiser, CH2M HILL
Todd Goeks, NOAA
Jessica Winter, NOAA
Richard Gay, Weyerhaeuser Company
Martin Lebo, Ph.D., Weyerhaeuser Company
Kathy Huibregtse, ENVIRON
Garry Griffith, P.E., Georgia-Pacific LLC

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)
AREA 2 (PLAINWELL DAM TO OTSEGO CITY DAM – OTSEGO CITY IMPOUNDMENT)
AREA 3 (OTSEGO CITY DAM TO OTSEGO DAM – OTSEGO IMPOUNDMENT)**

REPORT #67, SEPTEMBER 2012

**PREPARED BY ARCADIS
OCTOBER 12, 2012**

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

REPORT #67, SEPTEMBER 2012

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On September 5, ARCADIS requested from the Michigan Department of Natural Resources (MDNR) an addendum to the August 20 Scientific Collector's Permit for fish sampling in the Kalamazoo River from Morrow Lake to Lake Allegan for the purpose of collecting fish samples for PCB analysis.
- On September 6, ARCADIS obtained a Scientific Collector's Permit Addendum from the MDNR.
- On September 6, ARCADIS provided to the Michigan Department of Environmental Quality (MDEQ) a letter regarding its comments on the *Area 1 Alternatives Screening Technical Memorandum* (ASTM), which included a number of preliminary responses to comments.
- On September 10, Georgia-Pacific LLC (Georgia-Pacific) paid the U.S. Environmental Protection Agency (USEPA) the remaining portion of the Operable Units 2 and 5 (OU2 and OU5) cost recovery packages. A letter was subsequently forwarded to USEPA with the wire transfer receipt.
- On September 10, Georgia-Pacific, ARCADIS, USEPA, and MDEQ participated in a conference call to discuss agency review of the *Area 3 Proposed Survey and Field Sampling Plan*.
- On September 10, ARCADIS forwarded letters requesting property access for Area 3 sampling to Vintage Radio Enterprises LLC; City of Otsego; Washout LLC; Atwood, Dejong, Curtiss, LLC; and Mr. and Ms. Robinson.
- On September 11, ARCADIS forwarded to USEPA and MDEQ the draft agenda for an Area 4 site tour (by boat) and the Supplemental Remedial Investigation/Feasibility Study (SRI/FS) planning meeting, both scheduled for September 27.
- On September 12, Georgia-Pacific, ARCADIS, USEPA, and MDEQ participated in a conference call to discuss MDEQ's comments on the Area 1 ASTM.
- On September 12, MDEQ forwarded to ARCADIS channel stability data documents for the Former Plainwell Impoundment.
- On September 12, USEPA forwarded to Georgia-Pacific missing progress report descriptions from the OU5 cost recovery package.
- On September 12, Mr. and Ms. Robinson forwarded to ARCADIS their signed access letter for Area 3 sampling.
- On September 13, ARCADIS submitted to USEPA the *Area 3 Proposed Survey and Field Sampling Plan* (revised following USEPA and MDEQ comment on the August 2012 draft).
- On September 13, ARCADIS forwarded to the City of Otsego a figure showing City of Otsego land affected by the upcoming Area 3 survey and sampling. That same day, the City of Otsego forwarded to ARCADIS its signed access letter for Area 3 sampling.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

REPORT #67, SEPTEMBER 2012

- On September 14, the MDNR forwarded to ARCADIS draft comments from the Natural Resource Trustees (Trustees) and MDEQ regarding the bank monitoring program for the Former Plainwell Impoundment and the Plainwell No. 2 Dam Area.
- On September 14, MDEQ submitted to ARCADIS its comments on the September 13 *Area 3 Proposed Survey and Field Sampling Plan*.
- On September 17, USEPA notified Georgia-Pacific of its approval to conduct floodplain sampling in Area 3.
- On September 17, Georgia-Pacific, ARCADIS, USEPA, MDEQ, MDNR, the U.S. Fish and Wildlife Service (USFWS), the Michigan Department of Agriculture (MDAG), and the National Oceanic and Atmospheric Administration (NOAA) participated in a conference call to discuss bank maintenance for the Former Plainwell Impoundment and the Plainwell No. 2 Dam Area Time Critical Removal Action (TCRA) projects. An agenda was forwarded earlier on the same day.
- On September 17, Vintage Radio Enterprises LLC forwarded to ARCADIS its signed access letter for Area 3 sampling.
- On September 18, ARCADIS forwarded to USEPA copies of the *Former Plainwell Impoundment and Plainwell No. 2 Dam Area Spring 2012 Bank Conditions Monitoring Report* and responses to MDEQ comments on the 2011 *Former Plainwell Impoundment and Plainwell No. 2 Dam Area Final Bank Conditions Monitoring Report*. These documents were originally submitted to USEPA on August 17, 2012.
- On September 18, Georgia-Pacific, ARCADIS, USEPA, and MDEQ participated in a conference call regarding the proposed Area 3 sampling.
- On September 18, ARCADIS forwarded to MDEQ and MDNR bathymetric survey data for the Former Plainwell Impoundment. This letter was also forwarded to USEPA, USFWS and NOAA on September 21.
- On September 19, Georgia-Pacific, ARCADIS, MDEQ, and MDNR participated in a site walk at the Former Plainwell Impoundment to discuss bank maintenance options.
- On September 19, ARCADIS forwarded to USEPA communication materials for the Area 3 field work: a parking poster and site worker wallet card.
- On September 19, ARCADIS forwarded a letter requesting property access for Area 3 sampling to Otsego Paper Inc.
- On September 25, ARCADIS forwarded to USEPA two revised figures depicting 21 proposed additional bank soil sampling locations in Area 3.
- On September 26, ARCADIS forwarded to CH2M HILL responses to comments on Area 2 bioaccumulation factors.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

REPORT #67, SEPTEMBER 2012

- On September 26, MDEQ submitted to ARCADIS suggested revisions to the September 13 *Area 3 Proposed Survey and Field Sampling Plan*.
- On September 27, ARCADIS hosted a site tour of Area 4 (Trowbridge Impoundment) and an Area 4 SRI/FS planning meeting with USEPA and MDEQ. This site tour was conducted in accordance with Section 1.1.3 of the Scope of Work (SOW).
- On September 27, ARCADIS forwarded to USEPA a letter regarding CH2M HILL backup for cost recovery packages.
- On September 28, ARCADIS transmitted to USEPA and MDEQ the sign-in sheet and presentation slides from the September 27 Area 4 planning meeting.
- Georgia-Pacific awaits the following:
 - USEPA's approval of the *Area 3 Proposed Survey and Field Sampling Plan*.
 - USEPA's response to a letter requesting deferment of the Area 2 ASTM until after the draft Area 2 SRI report is reviewed and revised with agency input.
 - Signed access agreements from Washout LLC, Atwood, Dejong, Curtiss, LLC, and Otsego Paper Inc. regarding Area 3 sampling.
 - USEPA, MDEQ, MDNR, USFWS, and NOAA comments on the *Former Plainwell Impoundment and Plainwell No. 2 Dam Area Spring 2012 Bank Conditions Monitoring Report*.

Data Collected and Field Activities Conducted during the Period

- On September 6, 13, and 19, ARCADIS provided schedule updates to CH2M HILL and CDM Smith for the Area 3 field sampling.
- During the week of September 17, ARCADIS set up staff gages in the Otsego Impoundment (Area 3) and resurveyed existing erosion pin locations. Per earlier discussions with USEPA and MDEQ, there was no oversight of these survey activities. Table 1 presents staff gage coordinates and readings data.
- During the week of September 24, ARCADIS began soil and sediment sampling in Area 3 with oversight by representatives of USEPA and MDEQ (Table 2). Detailed core descriptions for collected cores are provided in Table 3. Samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) for PCB, grain size, and total organic carbon (TOC) analyses (Table 4).

Laboratory Data Received during the Period

- No laboratory data was received during this period.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

REPORT #67, SEPTEMBER 2012

Problems

- Hard-packed clay was encountered in core locations OFP-016, OFP-023, OFP-24, OFP-033, OFP-37, OFP-38, and OFP-43 in Area 3 and was impenetrable using Lexan tubing.

Actions Taken to Correct Problems

- Core locations OFP-016, OFP-023, OFP-24, OFP-033, OFP-37, OFP-38, and OFP-43 will be re-occupied using different sampling equipment to penetrate dry hard-packed clay encountered that was impenetrable using Lexan. No samples will be analyzed from the original cores.

Developments Anticipated during the Next Two Reporting Periods

- During October, ARCADIS is scheduled to finish the soil and sediment sampling in the Otsego Impoundment (Area 3).
- On October 2, ARCADIS is scheduled to submit the revised *Area 3 Proposed Survey and Field Sampling Plan* to USEPA.
- On October 3, ARCADIS is scheduled to submit the review of hydraulic modeling near the Former Plainwell Dam to evaluation effects of remaining stored sediment on bank stresses to MDEQ and MDNR.
- On October 4, Georgia-Pacific, ARCADIS, USEPA, MDEQ, MDNR, USFWS, MDAG, and NOAA are scheduled to participate in a conference call to discuss the Former Plainwell Impoundment and Plainwell No. 2 Dam Area bank conditions.
- By October 30, ARCADIS is scheduled to submit the Area 1 FS Report to USEPA (within 90 days of receipt of USEPA comments on the Area 1 ASTM).
- In October, USEPA is scheduled to approve the *Area 3 Proposed Survey and Field Sampling Plan*.
- In October, ARCADIS anticipates beginning to receive data from TestAmerica for Area 3 sampling performed in September and October.
- In October, ARCADIS plans to submit a plan to USEPA, MDEQ, MDNR, USFWS, MDAG, and NOAA detailing maintenance work to be proposed for completion in the former Plainwell Impoundment and Plainwell No. 2 Dam Area. ARCADIS plans to schedule the maintenance work once approval is received.
- By November 1, ARCADIS is scheduled to submit the Area 2 SRI Report.
- By November 30, ARCADIS is scheduled to submit the Area 4 SRI/FS Work Plan.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 1 - Area 3/Former Otsego Impoundment 2012 Staff Gage Data

Staff Gage	Location
1 (OSG-1)	Kalamazoo River at Otsego Dam
2 (OSG-2)	Kalamazoo River at M-89 Bridge
3 (OSG-3)	Kalamazoo River at Farmers Street

Staff Gage	Date	Time	Gage Height (feet)	Flow (cfs)
1	9/18/2012	1530-1630	0	553
2	9/18/2012	1400-1500	4.7	593
3	9/18/2012	1000-1215	11.7	830
	9/26/2012	855-1010	11.6	588

Notes:

cfs - cubic feet per second

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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 2 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Core Data

Date Collected	Location	Date Processed	Processing Time	Core Collection Method	Matrix	Water Depth (feet)	Penetration Depth (inches)	Recovery Depth
9/24/2012	OFP-040	9/25/2012	900	3" Lexan	Floodplain Soil	0	59	40
	OFP-041	9/25/2012	940	3" Lexan	Floodplain Soil	0	77	60
	OFP-045	9/25/2012	1020	3" Lexan	Floodplain Soil	0	60	49
	OFP-046	9/25/2012	1105	3" Lexan	Floodplain Soil	0	45	40
	OFP-047	9/25/2012	1145	3" Lexan	Floodplain Soil	0	43	35
	OFP-048	9/25/2012	1215	3" Lexan	Floodplain Soil	0	48	43
	OFP-049	9/25/2012	1345	3" Lexan	Floodplain Soil	0	32	24
9/25/2012	OFP-050	9/25/2012	1410	3" Lexan	Floodplain Soil	0	36	32
	OFP-001	9/25/2012	1510	3" Lexan	Floodplain Soil	0	34	27
	OFP-002	9/25/2012	1530	3" Lexan	Floodplain Soil	0	64	42
	OFP-003	9/25/2012	1615	3" Lexan	Floodplain Soil	0	78	68
	OFP-004	9/26/2012	810	3" Lexan	Floodplain Soil	0	49	40
	OFP-005	9/26/2012	845	3" Lexan	Floodplain Soil	0	53	48
	OFP-006	9/26/2012	920	3" Lexan	Floodplain Soil	0	65	56
	OFP-007	9/26/2012	1015	3" Lexan	Floodplain Soil	0	65	56
	OFP-008	9/26/2012	1055	3" Lexan	Floodplain Soil	0	22	24
	OFP-009	9/26/2012	1120	3" Lexan	Floodplain Soil	0	42	42
	OFP-010	9/26/2012	1150	3" Lexan	Floodplain Soil	0	47	43
	OFP-011	9/26/2012	1355	3" Lexan	Floodplain Soil	0	84	72
9/26/2012	OFP-012	9/26/2012	1455	3" Lexan	Floodplain Soil	0	56	36
	OFP-013	9/26/2012	1530	3" Lexan	Floodplain Soil	0	80	64
	OFP-014	9/26/2012	1615	3" Lexan	Floodplain Soil	0	20	20
	OFP-015	9/26/2012	1635	3" Lexan	Floodplain Soil	0	41	30
	OFP-016	9/27/2012	805	3" Lexan	Floodplain Soil	0	34	31
	OFP-017	9/27/2012	830	3" Lexan	Floodplain Soil	0	36	30
	OFP-018	9/27/2012	855	3" Lexan	Floodplain Soil	0	29	24
	OFP-019	9/27/2012	910	3" Lexan	Floodplain Soil	0	56	42
	OFP-020	9/27/2012	935	3" Lexan	Floodplain Soil	0	66	58
	OFP-021	9/27/2012	1020	3" Lexan	Floodplain Soil	0	66	59
	OFP-022	9/27/2012	1055	3" Lexan	Floodplain Soil	0	36	35
	OFP-023	9/27/2012	1140	3" Lexan	Floodplain Soil	0	38	32
	OFP-024	9/27/2012	1300	3" Lexan	Floodplain Soil	0	24	24
	OFP-025	9/27/2012	1325	3" Lexan	Floodplain Soil	0	35	30
	OFP-026	9/27/2012	1350	3" Lexan	Floodplain Soil	0	58	53
9/27/2012	OFP-027	9/27/2012	1425	3" Lexan	Floodplain Soil	0	38	36
	OFP-029	9/27/2012	1455	3" Lexan	Floodplain Soil	0	38	38
	OFP-032	9/27/2012	1525	3" Lexan	Floodplain Soil	0	70	43
	OFP-033	9/27/2012	1555	3" Lexan	Floodplain Soil	0	37	30
	OFP-036	9/27/2012	1620	3" Lexan	Floodplain Soil	0	29	19
	OFP-037	9/27/2012	1635	3" Lexan	Floodplain Soil	0	24	24
	OFP-038	9/28/2012	750	3" Lexan	Floodplain Soil	0	24	24
	OFP-039	9/28/2012	815	3" Lexan	Floodplain Soil	0	65	47
	OFP-042	9/28/2012	845	3" Lexan	Floodplain Soil	0	44	41
	OFP-043	9/28/2012	915	3" Lexan	Floodplain Soil	0	46	34
	OFP-044	9/28/2012	945	3" Lexan	Floodplain Soil	0	43	41
	OFP-051	9/28/2012	1015	3" Lexan	Floodplain Soil	0	73	64
	OFP-052	9/28/2012	1055	3" Lexan	Floodplain Soil	0	42	37
	OFP-053	9/28/2012	1120	3" Lexan	Floodplain Soil	0	30	29
	OFP-054	9/28/2012	1140	3" Lexan	Floodplain Soil	0	47	33
9/28/2012	OFP-055	9/28/2012	1230	3" Lexan	Floodplain Soil	0	41	38
	OFP-056	9/28/2012	1255	3" Lexan	Floodplain Soil	0	8	8
	OFP-058	9/28/2012	1315	3" Lexan	Floodplain Soil	0	32	32

Notes:

- Core locations OFP-016, OFP-023, OFP-24, OFP-033, OFP-37, OFP-38, and OFP-43 will be re-occupied using different sampling equipment to penetrate dry hard-packed clay encountered that was impenetrable using Lexan. No samples will be analyzed from the original cores.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 3 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Core Descriptions

Date Processed	Location	Date Collected	Depth (inches)	Description
9/25/2012	OFP-040	9/24/2012	0 - 6	Brown silt, some clay, little organics, trace fine sand
			6 - 30	Gray brown grading to dark gray brown silt with clay, trace organics (roots)
			30 - 38	Dark brown black silt, trace fine sand, trace organics (roots), trace clay
			38 - 40	Brown fine to medium sand, trace organics (roots)
	OFP-041	9/24/2012	0 - 15	Brown grading to gray brown silt with little organics, little clay, trace fine sand
			15 - 32	Dark brown silt, some clay, trace organics (roots)
			32 - 36	Black silt, trace clay, slight odor, slight sheen
			36 - 41	Olive brown fine to coarse sand, trace silt (poorly sorted)
			41 - 60	Gray to yellowish brown fine to very coarse sand, some small to large pebbles (poorly sorted)
	OFP-045	9/24/2012	0 - 6	Dark brown organic silt, trace fine sand
			6 - 24	Gray brown clay with silt, trace organics (roots), trace granules
			24 - 34	Dark gray brown silt with clay, slight odor, trace organics (roots)
			34 - 40	Dark brown black silt, moderate odor, trace rubber band
			40 - 47	Dark brown silt, some clay, trace very fine to fine sand, trace organics (roots)
			47 - 49	Dark brown black silt, trace fine sand, trace small pebbles
	OFP-046	9/24/2012	0 - 6	Dark brown organic silt, trace fine to medium sand
			6 - 20	Gray brown clay with silt, little organics (roots), fine sand
			20 - 38	Gray brown silt with clay, trace organics (roots, shells), trace medium sand
			38 - 40	Yellowish brown fine to coarse sand, trace organics (shells)
	OFP-047	9/24/2012	0 - 3	Dark brown organic clay, trace fine sand
			3 - 18	Dark gray brown clay with silt, trace organics (roots)
			18 - 22	Dark brown silt, little clay, trace fine sand
			22 - 27	Yellowish brown fine to coarse sand, little silt, trace small pebbles
			27 - 35	Gray brown fine to very coarse sand, trace organics (shells), trace small to medium pebbles (poorly sorted)
	OFP-048	9/24/2012	0 - 6	Very dark brown organic silt, trace fine sand
			6 - 12	Gray brown silt with clay, trace organics (roots)
			12 - 29	Gray brown clay with silt, trace organics (roots), organic odor
			29 - 36	Gray brown silt, some clay, 2 seams of 1" at 31-32" and 34-35"
			36 - 43	Dark brown silt, little clay, trace organics (roots, shells)
	OFP-049	9/24/2012	0 - 6	Gray brown clay, little silt, trace organics (roots), trace brown fine silt at 5.5"
			6 - 19	Gray brown clay with silt, trace organics (roots)
			19 - 24	Orange brown fine sand with silt, trace small pebbles, trace organics (roots, shells)
	OFP-050	9/24/2012	0 - 6	Dark brown clay, some silt, trace organics
			6 - 10	Dark gray brown clay, little silt, trace fine sand
			10 - 20	Olive brown very fine to fine sand, little clay, trace silt, trace small pebbles, trace organics (roots)
			20 - 27	Orangish brown fine to coarse sand, little silt, trace organics (roots), trace calcareous material
			27 - 32	Orange brown very fine to coarse sand, trace silt, trace small pebbles, trace organics (shells) (saturated)

See Note on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 3 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Core Descriptions

Date Processed	Location	Date Collected	Depth (inches)	Description
9/25/2012 (Cont.)	OFP-001	9/25/2012	0 - 6	Dark brown clay with silt, little organics (roots)
			6 - 12	Gray brown mottled with dark brown clay with silt, trace organics (roots), trace biota
			12 - 19	Reddish brown fine to coarse sand, little silt, trace small to medium pebbles, trace organics (roots)
			19 - 27	Black grading to olive gray fine to very coarse sand, slight odor, trace small pebbles
	OFP-002	9/25/2012	0 - 8	Dark brown clay, little silt, trace organics (roots, leaves)
			8 - 13	Gray brown mottled with light brown clay with silt, trace organics (roots, wood)
			13 - 14	No recovery
			14 - 24	Gray brown mottled with light brown clay with silt, trace organics (roots, wood)
			24 - 38	Gray brown (24-28"), reddish brown (28-34"), and light brown black (34-38") very fine to coarse sand, trace organics (shells, roots), trace silt
			38 - 42	Dark brown fine to coarse sand, little silt, trace small pebbles
	OFP-003	9/25/2012	0 - 6	Reddish dark brown organic silt
			6 - 10	Gray brown fine to very coarse sand, little organics (roots), trace silt
			10 - 12	Dark blue gray silt with fine to medium sand, little organics, strong odor
			12 - 19	No recovery
			19 - 48	Dark gray to black silt, trace fine sand, trace organics (roots, wood), strong odor
			48 - 52	Dark brown silt, little clay, trace organics (roots)
			52 - 65	Dark gray brown silt with fine sand, little medium sand, trace organics (roots)
			65 - 68	Light yellowish gray fine to coarse sand, trace small to medium pebbles, trace calcareous material, trace organics (shells)
	OFP-004	9/25/2012	0 - 6	Brown organic silt
			6 - 20	Dark gray clay with silt, trace organics (roots), slight odor
			20 - 33	Dark brown clay with silt, little fine to medium sand, trace organics (roots, wood), slight odor
			33 - 40	Olive brown silt with clay, some fine to medium sand, trace small pebbles, trace organics (roots, shells)
9/26/2012	OFP-005	9/25/2012	0 - 11	Dark brown black organic clay, little silt, trace shells
			11 - 14	Dark gray brown clay with silt, trace fine to coarse sand
			14 - 18	No recovery
			18 - 24	Dark brown silt with clay, trace fine to medium sand, trace organics (roots)
			24 - 27	Dark gray brown silt with clay, little fine to very coarse sand, trace organics (shells)
			27 - 38	Dark gray brown grading to yellowish gray brown silt, some clay, trace fine to coarse sand, trace organics (roots)
			38 - 48	Yellowish gray brown fine to very coarse sand, little silt, little small to medium pebbles, trace organics (shells)
	OFP-006	9/25/2012	0 - 6	Brown organic silt with clay
			6 - 11	Gray brown clay with silt and organics
			11 - 14	Dark gray clay with silt, trace organics (roots)
			14 - 17	No recovery
			17 - 24	Gray brown mottled with dark gray clay with silt, trace organics (roots), slight odor
			24 - 52	Dark brown black silt with clay, trace fine sand, strong odor
			52 - 56	Dark brown clay with silt, trace fine sand, trace organics (roots)

See Note on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 3 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Core Descriptions

Date Processed	Location	Date Collected	Depth (inches)	Description
9/26/2012 (Cont.)	OFP-007	9/25/2012	0 - 6	Brown organic silt with clay
			6 - 11	Gray brown clay with silt, trace organics (roots)
			11 - 13	Dark gray clay with silt, trace organics (roots), slight odor
			13 - 16	No recovery
			16 - 19	Dark gray mottled with brown silt with clay, trace organics (roots), slight odor
			19 - 44	Black clay with silt, strong odor, 2" of dark brown clay with silt at 36-38"
			44 - 56	Olive gray brown silt with some fine to medium sand, little clay, trace organics (roots) - mostly at 45-46"
	OFP-008	9/25/2012	0 - 6	Gray brown organic clay with silt
			6 - 13	Dark gray organic clay with silt, trace fine to medium sand
			13 - 24	Gray brown grading to yellowish brown fine to coarse sand, trace silt, trace organics (roots)
	OFP-009	9/25/2012	0 - 6	Brown organic clay with silt, trace coarse sand, trace biota (worm)
			6 - 12	Dark gray brown clay with silt, trace coarse sand, trace organics (roots), brown seam of fine to medium sand at 8-9"
			12 - 13	Dark brown clay with silt, trace fine to medium sand, trace organics (roots)
			13 - 18	No recovery
			18 - 24	Brown fine to medium sand, trace coarse sand, trace silt, trace organics (roots)
			24 - 40	Gray brown grading to olive brown fine to medium sand, little silt, trace coarse sand
			40 - 42	Gray brown clay with silt, trace fine sand
	OFP-010	9/25/2012	0 - 6	Brown organic clay with silt
			6 - 15	Gray brown grading to dark gray clay with silt, trace organics (roots)
			15 - 16	No recovery
			16 - 22	Dark gray clay with silt, trace organics (roots)
			22 - 43	Dark gray grading to black silt with clay, trace organics (roots), 1" black seam of silty clay at 31-32", slight odor
	OFP-011	9/25/2012	0 - 6	Dark brown organic silt with clay
			6 - 15	Gray brown grading to dark gray clay with silt, trace organics (roots), very slight odor
			15 - 18	No recovery
			18 - 29	Dark gray clay with silt, trace organics (roots), very slight odor
			29 - 72	Dark gray grading to black silt with clay, trace very fine sand, trace organics (roots), strong odor
	OFP-012	9/25/2012	0 - 5	Gray brown clay, some silt, some organics (roots)
			5 - 12	Dark gray clay with silt, trace organics (roots)
			12 - 19	Dark gray clay with silt, trace coarse sand, trace organics (roots)
			19 - 24	Dark gray brown silt with clay, trace organics (roots), trace coarse sand
			24 - 30	Water pocket
			30 - 36	Brown very fine to very coarse sand, trace small pebbles, trace organics (roots)
	OFP-013	9/26/2012	0 - 6	Reddish brown organic silt with clay
			6 - 12	Gray brown mottled with orangish brown silt with clay, trace organics (roots)
			12 - 26	Grayish brown grading to dark gray silt with clay, trace organics
			26 - 64	Black grading to dark brown black silt with clay, trace coarse sand, seam of very fine to medium sand at 57.5", strong odor

See Note on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 3 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Core Descriptions

Date Processed	Location	Date Collected	Depth (inches)	Description
9/26/2012 (Cont.)	OFP-014	9/26/2012	0 - 6	Dark brown organic silt, little fine sand, trace clay
			6 - 11	Brown changed to yellow brown at 8.5" fine to medium sand, some silt, trace organics (roots, wood)
			11 - 18	Orangish brown clay with silt, little fine sand, trace organics (roots)
			18 - 20	Orangish brown fine to medium sand, trace clay, saturated, trace organics (roots)
	OFP-015	9/26/2012	0 - 6	Brown organic silt, some clay
			6 - 28	Light gray mottled with dark gray silt with clay, trace organics (roots, wood), seam of reddish brown silt with clay at 12-14"
			28 - 30	Dark brown silt with clay, trace organics (roots)
9/27/2012	OFP-017	9/26/2012	0 - 5	Gray brown organic silt with clay
			5 - 10	Dark gray clay with silt, trace organics (roots), trace biota (worm)
			10 - 24	Dark brown clay with silt, trace organics (roots)
			24 - 30	Orangish brown very fine to medium sand, trace coarse sand, trace small pebbles, trace organics
	OFP-018	9/26/2012	0 - 6	Dark brown clay, trace organics, trace silt
			6 - 10	Gray brown clay with silt, trace organics (roots)
			10 - 21	Dark brown very fine coarse sand - color change to gray brown at 17", trace small pebbles
			21 - 24	Gray fine to very coarse sand, trace very small pebbles
	OFP-019	9/26/2012	0 - 2	Gray brown clay with silt, little organics
			2 - 23	Gray brown clay with silt - color change to dark gray brown at 7", trace organics (roots)
			23 - 36	Dark brown black silt with clay, trace coarse sand, trace organics (roots), strong odor
			36 - 42	Reddish brown silt, some organics (wood, roots), trace coarse sand
	OFP-020	9/26/2012	0 - 6	Brown organic clay with silt, trace biota
			6 - 13	Gray brown clay with silt, trace organics (roots)
			13 - 14	No recovery
			14 - 23	Dark gray brown clay with silt, trace organics (roots)
			23 - 28	Dark brown black fine to coarse sand, trace silt, trace granules
			28 - 58	Dark gray brown grading to black silt with clay, trace organics (roots, wood), trace metal rapper, strong odor
	OFP-021	9/26/2012	0 - 6	Reddish brown silt, some clay, some organics (cattails root, roots, plants)
			6 - 18	Light gray grading to dark gray clay with silt, trace organics (roots)
			18 - 19	No recovery
			19 - 26	Light gray grading to dark gray clay with silt, trace organics (roots)
			26 - 59	Dark gray brown grading to black silt with clay, trace organics (roots), strong odor
	OFP-022	9/26/2012	0 - 3	Dark brown silt with clay, some organics (roots)
			3 - 12	Gray brown clay with silt, trace organics (roots, wood)
			12 - 13	Dark brown silt, some fine to medium sand, trace organics (roots, wood)
			13 - 16	No recovery
			16 - 21	Dark brown silt with fine to coarse sand, trace organics (roots), trace small pebbles
			21 - 30	Dark brown grading to gray brown very fine to coarse sand, trace organics (roots)
			30 - 35	Gray brown fine to coarse sand, trace small to medium pebbles

See Note on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 3 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Core Descriptions

Date Processed	Location	Date Collected	Depth (inches)	Description
9/27/2012 (Cont.)	OFP-025	9/26/2012	0 - 6	Dark brown clay with silt, some organics (roots)
			6 - 14	Brown clay with silt, trace organics (roots), trace fine to medium sand
			14 - 16	No recovery
			16 - 20	Brown clay with silt, trace organics (roots), trace fine to medium sand
			20 - 30	Yellowish brown fine to medium sand, trace organics (roots)
	OFP-026	9/26/2012	0 - 13	Dark gray brown clay with silt, some organics, trace organics from 6-13"
			13 - 14	No recovery
			14 - 21	Dark gray brown clay with silt, trace organics (roots, twigs)
			21 - 31	Brown silt, some clay, trace fine to medium sand, trace organics (roots)
			31 - 53	Orangish brown fine to medium sand, trace silt, trace organics (roots), trace small to medium pebbles at 51-53"
	OFP-027	9/26/2012	0 - 22	Dark brown grading to dark gray clay with silt, trace biota, little organics from 0-10", trace organics (roots) from 10-22", trace organics (shells)
			22 - 29	Dark reddish brown organic silt, trace wood
			29 - 33	Dark gray black clay with silt, trace fine to medium sand, trace organics (twigs)
			33 - 36	Yellowish brown fine to very coarse sand, trace small pebbles
	OFP-029	9/27/2012	0 - 14	Dark gray brown clay, some silt, trace organics (roots, wood)
			14 - 16	No recovery
			16 - 31	Dark gray brown clay, some silt, trace organics (roots, wood)
			31 - 38	Orangish brown fine to medium sand, trace coarse sand, trace organics (roots, wood), trace very fine sand, trace silt from 37-38"
	OFP-032	9/27/2012	0 - 6	Dark brown organic silt, some clay
			6 - 19	Dark gray brown silt with clay, trace organics (roots)
			19 - 22	No recovery
			22 - 32	Gray grading to dark gray clay with silt, trace organics (roots)
			32 - 43	Dark gray grading to black silt with clay, strong odor, lens of reddish black fine to medium sand at 37"
	OFP-036	9/27/2012	0 - 7.5	Dark brown fine to medium sand, trace silt, trace organics (roots), trace small to medium pebbles
			7.5 - 13	Brown fine to coarse sand, trace small pebbles
			13 - 19	Yellowish gray fine to very coarse sand, trace small to medium pebbles, trace organics (roots)
9/28/2012	OFP-039	9/27/2012	0 - 6	Brown organic silt, little clay
			6 - 22	Light gray brown clay with silt, trace organics (roots), slight odor
			22 - 25	Brown fine to medium sand, trace silt
			25 - 47	Dark gray brown grading to black silt with clay, trace organics (wood, roots), trace rubber band, seam of organics (leaves, wood, roots) at 31-32", strong odor
	OFP-042	9/27/2012	0 - 6	Dark brown silt with clay, trace organics (roots)
			6 - 16	Light gray brown grading to dark brown clay with silt, trace organics (roots), trace plastic at 9"
			16 - 17	No recovery
			17 - 35	Light gray brown grading to dark brown clay with silt, trace organics (roots)
			35 - 41	Gray brown grading to dark gray brown silt with clay, trace organics (roots), trace fine to medium sand at 37"
	OFP-044	9/27/2012	0 - 29	Gray brown grading to orangish brown clay with silt, trace organics (roots)
			29 - 41	Dark gray brown mottled with black silt with clay, trace organics (roots), slight odor

See Note on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 3 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Core Descriptions

Date Processed	Location	Date Collected	Depth (inches)	Description
9/28/2012 (Cont.)	OFP-051	9/27/2012	0 - 6	Reddish brown organic silt
			6 - 18	Gray brown grading to dark gray brown silt with clay, trace organics (roots), slight odor
			18 - 19	No recovery
			19 - 27	Dark gray brown silt with clay, trace organics (roots), slight odor
			27 - 45	Dark brown black silt with clay, trace organics (roots), strong odor
			45 - 53	Gray brown fine to coarse sand, little organics (shells, roots, wood), black organic seam at 49-50"
			53 - 64	Dark gray brown grading to light gray brown very fine to medium sand, trace coarse sand, trace silt, trace organics (roots, shells)
	OFP-052	9/27/2012	0 - 19	Dark gray brown clay with silt, trace organics (roots)
			19 - 32	Dark gray brown clay with silt, trace organics (roots - orangish brown around roots)
			32 - 37	Brown grading to dark gray brown silt with clay, trace fine sand, trace organics (roots)
	OFP-053	9/27/2012	0 - 8	Brown silt with very fine sand, trace organics (roots), trace biota (worms)
			8 - 25	Brown very fine to medium sand, trace clay, trace silt, trace organics (roots), trace small pebbles, trace very large pebbles
			25 - 29	Light gray brown very fine to medium sand, trace silt, trace organics (roots), trace small to medium pebbles
	OFP-054	9/27/2012	0 - 6	Dark gray brown silt with clay, little organics (roots), trace biota (worm)
			6 - 12	Light gray grading to dark gray clay with silt, trace organics (roots)
			12 - 16	Dark brown silt with clay, trace organics (roots), brown fine to medium sand at 14-15"
			16 - 17	No recovery
			17 - 31	Dark gray brown silt with clay, trace organics (roots - orangish brown around roots), fine to medium sand at 20"
			31 - 33	Light gray brown grading to dark gray brown fine to very coarse sand, trace organics
	OFP-055	9/27/2012	0 - 11	Dark brown grading to dark gray brown clay with silt, trace organics (roots), trace fine to medium sand
			11 - 17	Yellowish brown fine to coarse sand, trace organics (roots), trace silt
			17 - 38	Orangish brown very fine to medium sand, trace organics (roots), trace medium pebbles
	OFP-056	9/27/2012	0 - 6	Dark brown clay with silt, little organics, trace fine to medium sand, trace medium pebble
			6 - 8	Very pale brown fine to medium sand, trace silt, trace organics (roots)
	OFP-058	9/27/2012	0 - 6	Dark brown silt, some clay, trace fine to medium sand, trace organics (roots, leaves)
			6 - 14	Brown fine to medium sand, trace silt, trace organics (roots)
			14 - 16	No recovery
			16 - 32	Orangish brown very fine to medium sand, trace silt, trace organics (roots), 1" root at 20-21"

Note:

1. Core locations OFP-016, OFP-023, OFP-24, OFP-033, OFP-37, OFP-38, and OFP-43 will be re-occupied using different sampling equipment to penetrate dry hard-packed clay encountered that was impenetrable using Lexan. No samples will be analyzed from the original cores.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 4 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Soil Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
OFP-040	0 - 6	K27776			PCB, TOC, Grain Size
	6 - 12	K27777			PCB
	12 - 24	K27778			PCB
	24 - 30	K27779			PCB
	30 - 38	K27780			PCB
	38 - 40	K27781			PCB
OFP-041	0 - 6	K27782			PCB, TOC, Grain Size
	6 - 12	K27783			PCB
	12 - 24	K27784			PCB
	24 - 32	K27785			PCB
	32 - 36	K27786			PCB
	36 - 48	K27787			PCB
OFP-045	0 - 6	K27789			PCB, TOC, Grain Size
	6 - 12	K27790			PCB
	12 - 24	K27791			PCB
	12 - 24	K27792	K27791		PCB
	24 - 34	K27793		x	PCB
	34 - 40	K27794			PCB
OFP-046	0 - 6	K27795			PCB
	0 - 6	K27796			PCB, TOC, Grain Size
	6 - 12	K27797			PCB
	12 - 24	K27798			PCB
	24 - 36	K27799			PCB
	36 - 40	K27800			PCB
OFP-047	0 - 6	K27801			PCB, TOC, Grain Size
	6 - 12	K27802			PCB
	12 - 18	K27803			PCB
	18 - 22	K27804			PCB
	22 - 27	K27805			PCB
	27 - 35	K27806			PCB
OFP-048	0 - 6	K27807			PCB, TOC, Grain Size
	6 - 12	K27808			PCB
	12 - 24	K27809			PCB
	24 - 29	K27810			PCB
	29 - 36	K27811			PCB
	36 - 43	K27812			PCB
OFP-049	0 - 6	K27813			PCB, TOC, Grain Size
	6 - 12	K27814			PCB
	12 - 19	K27815			PCB
	19 - 24	K27816			PCB
	19 - 24	K27817	K27816		PCB
	0 - 6	K27818			PCB, TOC, Grain Size
OFP-050	6 - 12	K27819			PCB
	12 - 20	K27820			PCB
	20 - 24	K27821			PCB
	24 - 32	K27822		x	PCB
	0 - 6	K27823			PCB, TOC, Grain Size
	6 - 12	K27824			PCB
OFP-001	12 - 19	K27825			PCB
	19 - 27	K27826			PCB
OFP-002	0 - 6	K27827			PCB, TOC, Grain Size
	6 - 12	K27828			PCB
	12 - 24	K27829			PCB
	24 - 36	K27830			PCB
	36 - 42	K27831			PCB

See Notes on Page 4.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 4 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Soil Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
OFP-003	0 - 6	K27832			PCB, TOC, Grain Size
	6 - 10	K27833			PCB
	10 - 12	K27834			PCB
	19 - 24	K27835			PCB
	24 - 36	K27836			PCB
	24 - 36	K27837	K27836		PCB
	36 - 48	K27838		x	PCB
	48 - 52	K27839			PCB
	52 - 60	K27840			PCB
	60 - 65	K27841			PCB
	65 - 68	K27842			PCB
OFP-004	0 - 6	K27843			PCB, TOC, Grain Size
	6 - 12	K27844			PCB
	12 - 20	K27845			PCB
	20 - 24	K27846			PCB
	24 - 33	K27847			PCB
	33 - 40	K27848			PCB
OFP-005	0 - 6	K27849			PCB, TOC, Grain Size
	6 - 12	K27850			PCB
	12 - 14	K27851			PCB
	18 - 24	K27852			PCB
	24 - 27	K27853			PCB
	27 - 36	K27854		x	PCB
OFP-006	36 - 48	K27855			PCB
	0 - 6	K27856			PCB, TOC, Grain Size
	6 - 12	K27857			PCB
	12 - 14	K27858			PCB
	17 - 24	K27859			PCB
	24 - 36	K27860			PCB
	24 - 36	K27861	K27860		PCB
	36 - 48	K27862			PCB
	48 - 52	K27863			PCB
OFP-007	52 - 56	K27864			PCB
	0 - 6	K27865			PCB, TOC, Grain Size
	6 - 11	K27866			PCB
	11 - 13	K27867			PCB
	16 - 19	K27868			PCB
	19 - 24	K27869			PCB
	24 - 36	K27870			PCB
	36 - 44	K27871			PCB
OFP-008	44 - 56	K27872			PCB
	0 - 6	K27873			PCB, TOC, Grain Size
	6 - 13	K27874			PCB
	13 - 18	K27875			PCB
OFP-009	18 - 24	K27876			PCB
	0 - 6	K27877			PCB, TOC, Grain Size
	6 - 13	K27878			PCB
	18 - 24	K27879			PCB
	24 - 36	K27880		x	PCB
	36 - 40	K27881			PCB
OFP-010	40 - 42	K27882			PCB
	0 - 6	K27883			PCB, TOC, Grain Size
	6 - 9	K27884			PCB
	9 - 15	K27885			PCB
	16 - 22	K27886			PCB
	22 - 28	K27887			PCB
	28 - 32	K27888			PCB
	32 - 43	K27889			PCB
	32 - 43	K27890	K27889		PCB

See Notes on Page 4.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 4 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Soil Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
OFP-011	0 - 6	K27891			PCB, TOC, Grain Size
	0 - 6	K27892	K27891		PCB, TOC, Grain Size
	6 - 12	K27893			PCB
	12 - 15	K27894			PCB
	18 - 29	K27895			PCB
	29 - 36	K27896			PCB
	36 - 48	K27897			PCB
	48 - 60	K27898			PCB
OFP-012	60 - 72	K27899			PCB
	0 - 6	K27900		x	PCB, TOC, Grain Size
	6 - 12	K27901			PCB
	12 - 19	K27902			PCB
	19 - 24	K27903			PCB
	30 - 36	K27904			PCB
OFP-013	0 - 6	K27905			PCB, TOC, Grain Size
	6 - 12	K27906			PCB
	12 - 26	K27907			PCB
	26 - 36	K27908			PCB
	36 - 48	K27909			PCB
	48 - 60	K27910			PCB
	60 - 64	K27911			PCB
OFP-014	0 - 6	K27912			PCB, TOC, Grain Size
	6 - 11	K27913			PCB
	11 - 18	K27914			PCB
OFP-015	0 - 6	K27915			PCB, TOC, Grain Size
	6 - 12	K27916			PCB
	12 - 24	K27917			PCB
	24 - 28	K27918			PCB
	28 - 30	K27919			PCB
OFP-017	0 - 4	K27925			PCB, TOC, Grain Size
	4 - 8	K27926			PCB
	8 - 10	K27927			PCB
	10 - 24	K27928			PCB
	24 - 30	K27929		x	PCB
OFP-018	0 - 6	K27930			PCB, TOC, Grain Size
	6 - 10	K27931			PCB
	10 - 24	K27932			PCB
OFP-019	0 - 7	K27933			PCB, TOC, Grain Size
	7 - 12	K27934			PCB
	12 - 23	K27935			PCB
	23 - 36	K27936			PCB
	36 - 42	K27937			PCB
OFP-020	0 - 6	K27938			PCB, TOC, Grain Size
	6 - 13	K27939			PCB
	14 - 23	K27940			PCB
	14 - 23	K27941	K27940		PCB
	23 - 28	K27942			PCB
	28 - 36	K27943			PCB
	36 - 48	K27944			PCB
	48 - 58	K27945			PCB
OFP-021	0 - 6	K27946			PCB, TOC, Grain Size
	6 - 12	K27947			PCB
	12 - 18	K27948			PCB
	19 - 26	K27949			PCB
	26 - 36	K27950		x	PCB
	36 - 48	K27951			PCB
	48 - 59	K27952			PCB

See Notes on Page 4.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #67, September 2012

Table 4 - Area 3/Former Otsego Impoundment 2012 SRI Sampling - Soil Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
OFP-022	0 - 6	K27953			PCB, TOC, Grain Size
	6 - 10	K27954			PCB
	10 - 13	K27955			PCB
	16 - 21	K27956			PCB
	21 - 24	K27957			PCB
	24 - 30	K27958			PCB
OFP-025	30 - 35	K27959			PCB
	0 - 6	K27968			PCB, TOC, Grain Size
	6 - 14	K27969			PCB
	16 - 20	K27970			PCB
OFP-026	20 - 30	K27971			PCB
	0 - 6	K27972			PCB, TOC, Grain Size
	6 - 10	K27973			PCB
	10 - 13	K27974			PCB
	14 - 24	K27975			PCB
	24 - 36	K27976			PCB
OFP-027	36 - 48	K27977			PCB
	48 - 53	K27978			PCB
	0 - 6	K27979			PCB, TOC, Grain Size
	6 - 12	K27980			PCB
	12 - 22	K27981			PCB
	22 - 29	K27982			PCB
OFP-029	29 - 33	K27983			PCB
	33 - 36	K27984			PCB
	0 - 6	K27985			PCB, TOC, Grain Size
	6 - 14	K27986			PCB
	16 - 24	K27987			PCB
	16 - 24	K27988	K27987		PCB
OFP-032	24 - 31	K27989			PCB
	31 - 38	K27990		x	PCB
	0 - 6	K27991			PCB, TOC, Grain Size
	6 - 12	K27992			PCB
	12 - 19	K27993			PCB
	22 - 32	K27994			PCB
OFP-036	32 - 43	K27995			PCB
	0 - 7.5	K28001			PCB, TOC, Grain Size
	7.5 - 12	K28002			PCB
	12 - 19	K28003			PCB

Notes:

- Core locations OFP-016, OFP-023, OFP-24, OFP-033, OFP-37, OFP-38, and OFP-43 will be re-occupied using different sampling equipment to penetrate dry hard-packed clay encountered that was impenetrable using Lexan. No samples will be analyzed from the original cores.
- Samples associated with core locations OFP-039, OFP-042, OFP-051, OFP-052, OFP-053, OFP-054, OFP-055, OFP-056, and OFP-058 will be sent for analysis in October.

MS/MSD = Matrix Spike/Matrix Spike Duplicate

PCB = polychlorinated biphenyl

TOC = total organic carbon